

Goal:

1. 10 mg. Marlboro-like cigarette
2. Selective filtration
3. New products
4. Selective delivery

CIGARETTE PHYSICS - 1706

Staff of seven

Personnel Training: Solid state physics, applied mathematics, thermal physics, experimental physics

Objective:

1. Develop understanding of how specific species of smoke are generated and compose adequate design equations for the process to generate new products.
2. Determine how specific filter material candidates function and assist in making them suitable for practical filters.

Program:

(Goal 1, 3 & 4) 1. Cigarette design:
a. measurement of relevant rod properties
b. compose and solve smoke process equations
c. design new products } Reduce concentration of less desirable elements of smoke, also normal flavor-low tar cigarette design

(Goal 2&3) 2. Stability improvement of new filter material candidates

(Goal 1&3) 3. Characterization of flow through filters under actual smoking conditions - smoker acceptability of filter, and filter design

Project Leader: Mr. A. C. Lilly, Senior Professional
Mr. E. M. Gentry, Assistant Professional
Mr. H. V. Lanzillotti, Associate Professional
Mr. B. C. LaRoy, Research Professional
Mr. S. L. Thurston, Technician
Mr. C. O. Tiller, Research Professional
Mr. A. R. Wayte, Technician
Dr. J. C. Schug, Consultant - \$700
Dr. D. T. Sawyer, Consultant - \$500
Princeton Combustion Group - \$50,000

Goal:

1. 10 mg. Marlboro-like cigarette
2. Selective filtration
3. New products
4. Selective delivery

1001514933